

Example #3: A solenoid 15 cm long has 600 turns and carries a current of 5.0 A. What is the magnetic field strength inside this coil?

$$B = \mu_0 \frac{N}{l} I$$

$$= \frac{4\pi \times 10^{-7} (600)(5.0)}{0.15}$$

0.15
← note

$$B = 0.025 \text{ T}$$